CONTENTS OF VOLUME 53

Volume 53 Nos. 1/2 September 1990

O. CASTAGNOLI, L. MUSMECI, E. ZAVATTIERO, and M. CHIRICO / Humic Substances and Humification Rate in a Municipal Refuse Disposed of in a Landfill 1

ALLAN N. D. AUCLAIR, HANS C. MARTIN, and SHERRY L. WALKER / A Case Study of Forest Decline in Western Canada and the Adjacent United States 13

JOHN DONALD and EDWARD McBEAN / Information Measures for Acid Precipitation Networks 33

RAYMOND N. YONG, BENNO P. WARKENTIN, YUWAREE PHADUNGCHEWIT, and ROSA GALVEZ / Buffer Capacity and Lead Retention in Some Clay Materials 53

JAN E. ERIKSSON / A Field Study on Factors Influencing Cd Levels in Soils and in Grain of Oats and Winter Wheat 69

D. VAN DAM, G. W. HEIL, R. BOBBINK, and B. HEIJNE / Atmospheric Deposition to Grassland Canopies: Lysimeter Budgets Discriminating between Interception Deposition, Mineral Weathering and Mineralization 83

ESPERANZA PANIAGUA CRESPO, MARGARITA MARTI MALLEN, M^{a}. P. MONICA PENAS ARES, M^{a}. CRISTINA ARIAS FERNANDEZ, and M^{a}. PILAR COMBARRO COMBARRO / Isolation of Amoebae of the Genera *Naegleria* and *Acanthamoeba* From Public Fountains in Galicia (N. W. Spain) 103

GIAN GUPTA and PETER KELLY / Toxicity (EC_{50}) Comparisons of Some Animal Wastes 113

J. P. G. LOCH, P. A. GREVE, and S. VAN DER BERG / Accumulation and Leaching of the Fungicide Fentin Acetate and Intermediates in Sandy Soils 119

B. SUBRAMANIAN, S. K. PRABU, and A. MAHADEVAN / Influence of Thermal Power Station Effluents on Hydrobiology of Seawater 131

T. MANGIALARDI and A. E. PAOLINI / Adsorption of Quaternary Ammonium Surfactants on Fuller's Earth 139

GRAHAM T. HERRICK and ANDREW J. FRIEDLAND / Patterns of Trace Metal Concentration and Acidity in Montane Forest Soils of the Northeastern United States 151

K. DAVIS HUYSMANS and W. T. FRANKENBERG, Jr. / Arsenic Resistant Microorganisms Isolated from Agricultural Drainage Water and Evaporation Pond Sediments 159

WŁADYSŁAW GRODZIŃSKI, JAN GRESZTA, RYSZARD LASKOWSKI, MACIEJ MARYAŃSKI, and ANNA ROZEN 169

C. BARGHIGIANI, R. BARGAGLI, B. Z. SIEGEL, and S. M. SIEGEL / A Comparative Study of Mercury Distribution on the Aeolian Volcanoes, Vulcano and Stromboli 179

DOROTHY A. WALTHER, GERALD J. RAMELOW, JAMES N. BECK, JOHN C. YOUNG, JAMES D. CALLAHAN, and MICHAEL F. MARCON / Temporal Changes in Metal Levels of the Lichens *Parmotrema Praesorediosum* and *Ramalina Stenospora*, Southwest Louisiana 189

Book review

D. R. Cullimore (ed.), *Proceedings of the International Symposium on Biofouled Aquifers: Prevention and Restoration* (T. VIRARAGHAVAN) 201

Volume 53 Nos. 3/4 October 1990

D. I. KAPLAN, K. S. SAJWAN, D. C. ADRIANO, and S. GETTIER / Phytoavailability and Toxicity of Beryllium and Vanadium 203
W. H. PETTY and S. E. LINDBERG / An Intensive 1-Month Investigation of Trace Metal Deposition and Throughfall at a Mountain Spruce Forest 213
WILLIAM STANSLEY and GREGORY COOPER / An Acidic Snowmelt Event in a New Jersey Stream: Evidence of Effects on an Indigenous Trout Population 227
A. G. BOBBA, D. C. L. LAM, W. G. BOOTY, D. S. JEFRIES, and R. L. THOMAS / Stochastic Analysis of Acid Shocks Generated by Mixed Hydrological Processes 239
NICOLAS S. BLOOM and STEVEN W. EFFLER / Seasonal Variability in the Mercury Speciation of Onondaga Lake (New York) 251
JA-KONG KOO, DEOG-WON AHN, SEOK-PYO YOON and DONG-HA KIM / Effects of Water Content and Temperature on Equilibrium Distribution of Organic Pollutants in Unsaturated Soil 267
EDWARD H. SMITH and WALTER J. WEBER, JR. / Comparative Assessment of the Chemical and Adsorptive Characteristics of Leachates from a Municipal and an Industrial Landfill 279
YILMAZ MUSLU / Use of Dispersed Flow Models in Design of Biofilm Reactors 297
H. H. P. FANG, K. K. WU, and C. L. Y. YEONG / Corrosion of Construction Metals under Simulated Acid Rain/Fog Conditions with High Salinity 315
B. P. SHAW and A. K. PANIGRAHI / Brain AChE Activity Studies in Some Fish Species Collected from a Mercury Contaminated Estuary 327
S. M. SIEGEL, MARGALITH GALUN, and B. Z. SIEGEL / Filamentous Fungi as Metal Biosorbents: A Review 335
CATHERINE A. CARLSON / Subsurface Leachate Migration from a Reject Coal Pile in South Carolina 345
J. GUO and K. C. LIN / Anaerobic Treatment of Potato-Processing Wastewater by a UASBR-UAF System at Low Organic Loadings 367
B. S. KHANGAROT and D. M. TRIPATHI / Gill Damage to Catfish, *Saccobranchus fossilis* Following Exposure to Chromium 379
R. KELMAN WIEDER / Metal Cation Binding to *Sphagnum* Peat and Sawdust: Relation to Wetland Treatment of Metal-Polluted Waters 391
Announcements 401
Volume Contents 405